



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Approved for use through 10/31/2002. OMB 0851-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/943641		
		Filing Date	August 30, 2001		
		First Named Inventor	Philip A. Beachy		
		Art Unit	1646		
		Examiner Name	Basi, Nirmal Singh		
Sheet	1	of	1	Attorney Docket Number	JHUC-P01-017

RECEIVED

APR 23 2003

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² -Number ³ -Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	WO 00/21987	04/20/2000	Arena Pharmaceuticals, Inc.	
	AB	WO 00/22131	04/20/2000	Behan et al.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	AC	Han, M. et al. Constitutive Activation of Opsin by Mutation of Methionine 257 on Transmembrane Helix 6. Biochemistry 37, 8253-8261 (1998).		
	AD	Lu, D. et al. A Ligand-Mimetic Model for Constitutive Activation of the Melanocortin-1 Receptor. Mol. Endocrinol. 12, 592-604 (1998).		
	AE	McWhinney, C. et al. Constitutively Active Mutants of the alpha1a- and the alpha1b-Adrenergic Receptor Subtypes Reveal Coupling to Different Signaling Pathways and Physiological Responses in Rat Cardiac Myocytes. J. Biol. Chem. 275, 2087-2097 (21 Jan. 2000).		
	AF	Pauwels, P.J. and Wurch, T. Review: Amino Acid Domains Involved in Constitutive Activation of G-Protein-Coupled Receptors. Mol. Neurobiol. 17, 109-135 (1998).		
	AG	Somers, C.M. et al. A Limited Spectrum of Mutations Causes Constitutive Activation of the Yeast alpha-Factor Receptor. Biochemistry 39, 6898-6909 (2000).		
	AH	Spalding, T.A. et al. Constitutive Activation of the m5 Muscarinic Receptor by a Series of Mutations at the Extracellular End of Transmembrane 6. Biochemistry 36, 10109-10116 (1997).		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>Hyun Chinn</i>	Date Considered	12/8/04
--------------------	-------------------	-----------------	---------